

# Devin Riess

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## SKILLS

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**Experienced:** Java, Python, Rest API, SQL

**Familiar:** Tensorflow, Skit-Learn, Docker, OOP, HTML, C/C++, .NET, JavaScript, Git

**Relevant Coursework:** Artificial Intelligence, Machine Learning, Software Development Tools, Algorithms, Database Systems, Object Oriented Programming

## PROFESSIONAL EXPERIENCE

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### University of Colorado OIT

Software Developer

**Boulder, CO**

*June 2021–Present*

- Automated the math placement process for incoming students to CU using Python, GitHub actions, and Docker saving professors 2-3 hours a week
- Implemented Oracle database to store placement records and reinforced with in-memory database and mock unit tests
- Reduced load times on LMS and Math Placement projects by implementing completable futures with parallel API calls
- Participated in daily standups and developed using Python, Java, and SQL (Oracle), in an agile work environment

## PROJECTS

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### Project SafeGuard

Lead Software Developer

**Boulder, CO**

*August 2022–April 2023*

- Created a siren detection system to reduce ambulance travel times by 45 seconds or more using a CNN and ESP32 microcontroller and achieved an accuracy above 80% on the siren recognition model
- Recorded and saved important information on ambulance vehicles in Oracle database and hosted NodeJS server to display information for users using REST API from microcontroller to server
- Used Python (TensorFlow and sklearn), C, and C++ for microcontroller, as well as NodeJS and SQL for remote server

### Skylights Web App

Full Stack Developer

**Boulder, CO**

*August 2020–December 2022*

- Lead the development on a semester-long project producing a web application focused on conglomerating weather and astronomical data
- Developed the app using web scraping, HTML, javascript, and node.js hosted on Heroku

### Terraria Mod

Backend Software Developer

**Boulder, CO**

*August 2022–December 2022*

- Built features that improved player quality of life by implementing design patterns and object-oriented principles using .NET
- Created new commands and item class structures allowing users to perform new tasks that were unavailable before using C#

## EDUCATION

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### UNIVERSITY OF COLORADO, BOULDER

B.S. - Computer Science

GPA: 3.8

Head Engineering Fellow, Water Polo President

**Boulder, CO**

*May 2023*